1/12/84
A2500-2

Paper Paperboard & Wood Pulp

MONTHLY STATISTICAL SUMMARY - Vol. 61 - No. 12 DECEMBER, 1983

Strength in Paper and Paperboard Production Continues

The rate of paper and paperboard production in November and early December continued at the high levels evident during the previous three months, with the November trend level (average of seasonally adjusted October-November rates) close to 68 million tons per year.

These highs are the result of a recent surge in production: the September trend level was 67.2 million tons per year, compared with 65.4 million tons per year in August and the 62.6 million ton average rate recorded in the first half. If production continues at its present rate, year-end shutdowns will probably result in a smaller than usual loss in tonnage, and total production in 1983 will be in the neighborhood of 64.8 million tons.

Both paper and paperboard showed this same pattern. The trend rate of paper production was 34 million tons per year for October and November compared to 31.8 million tons per year average for the first half of 1983. Paperboard production, which was just below 34 million tons per year during the past two months, averaged about 30.8 million tons per year in the first half of 1983. Based on current trends, paper production in 1983 will probably total 32.8 million tons; paperboard production about 32.0 million tons.

Paper

For the most part, the major grades of paper have followed a trend similar to that indicated for the total: a strong first half followed by a surge in production in the second half of the year.

The largest increases were evident in the printing/writing grades, tissue papers and "other" packaging papers. Production of newsprint and unbleached kraft paper, while higher in the second half than in the first, did not show

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as strong an increase as the other grades. Total 1983 newsprint production is pointing to a 2% gain over its 1982 level, while unbleached kraft paper appears to be rising about 2.5%. This is in contrast to the estimated 14% increase in the shipments of coated papers; 11% in uncoated free sheet papers; 10% in bleached bristols and about 12% in "other" packaging papers.

The relatively small increase in U.S. newsprint production contrasts with the increase in demand for Canadian newsprint. The Canadian Pulp and Paper Association reported that shipments of newsprint to the U.S. in the first ten months of 1983 rose 7.2%, compared to a 2.5% increase in shipments from U.S. mills to U.S. publishers. Despite the increase in Canadian shipments, Canadian newsprint accounted for only 57% of the total U.S. newsprint supply in this period. This was well below the levels that prevailed a few years ago, before the expansion in U.S. newsprint capacity. In 1978, for example, Canadian newsprint accounted for 66% of the total U.S. supply of newsprint

The force sustaining demand for uncoated free sheet papers, as pointed out in earlier reports, has been the growing demand for form bond papers, largely for use in computer printout papers, and paper for office copy machines and word processors. Use of computers in business and homes is spreading rapidly and demand for hard copy continues strong.

Tissue paper production in 1983 is estimated at about 4.7 million tons, 7% above the 1982 level and 5% above the previous highs reached in both 1979 and 1981. The strength in 1983 demand reflected increases in output of towels, toilet tissue and facial tissues.

Paperboard

Record-high rates of paperboard production in 1983 prevailed throughout the grade structure. In percentage terms, the largest increases were in the non-packaging grades of paperboard, resulting from strength in demand for gypsum wallboard facings and panelboard - used in the housing and to some extent in the automobile markets.

Production of containerboard for domestic use in 1983 is estimated about 10% above the 1982 level. This compares to an estimated 7% increase in shipments of fiber boxes, suggesting a small increase in tonnage diverted to non-box usage. Inventories

Continued on Page 10

PAPER AND PAPERBOARD STATISTICS

PRODUCTION, SHIPMENTS AND ORDERS
(Thousands of Tons)

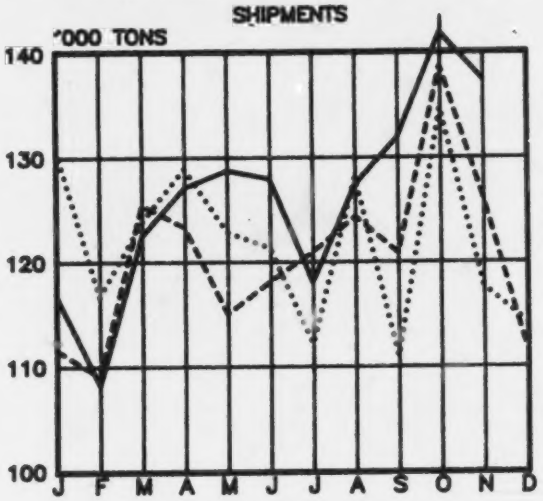
	YEAR 81	YEAR 82	AUG. 83	SEPT 83	OCT. 83	NOV. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
PAPER					R	P		
Newsprint - Production	5239	5042	459	415	448	456	5184	1.6
- Shipments	5220	4988	457	413	448	453	5142	2.3
Printing & Writing	15722	15643	1540	1459	1566	1505	17333	10.3
Groundwood Paper - Shipments	1463	1459	128	132	142	138	1515	3.3
- New Orders	1449	1469	163	131	151	124	1570	5.8
- Unfilled Orders	100	81	145	151	159	150	150	60.4
Coated Paper - Shipments	4940	5032	536	485	535	500	5710	12.8
- New Orders	4853	4988	556	451	517	442	5797	15.8
- Unfilled Orders	380	325	528	492	477	419	419	36.1
Unctd Free Sheet - Shipments	7898	7847	758	722	765	745	8699	10.4
- New Orders	7735	7820	782	720	729	727	8933	14.0
- Unfilled Orders	370	321	608	609	566	558	558	84.0
Thin Paper - Shipments	336	323	28	26	29	25	331	1.6
Cotton Fiber Paper - Shipments	125	118	11	11	11	10	123	3.8
Bleached Bristols - Production	960	865	79	83	84	87	855	9.8
Tissue Paper - Production	4518	4438	418	387	413	385	4788	7.5
Total Packaging & Other Paper *	5552	5300	514	492	508	486	5628	5.4
Unbl. Kraft Paper - Shipments	3880	3888	348	327	338	330	3808	2.5
Other Paper - Production *	1672	1612	165	165	168	156	1817	12.2
TOTAL PAPER-Production-Unadj.	31030	30422	2930	2763	2934	2842	32911	7.6
-Production-S.A.			2817	2872	2835	2862	32772	7.8
PAPERBOARD - PRODUCTION								
Solid Wood Pulp Furnish	24231	22589	2131	2126	2219	2160	24924	8.7
Unbl. Kraft Linerboard (1)	14540	13494	1307	1324	1345	1331	15154	10.5
Production for Export	1887	1931	191	199	157	158	2178	11.5
Other Unbl. Kraft Paperboard	1062	1040	87	86	94	78	1082	1.6
Semichemical Paperboard	4719	4389	406	395	423	423	4747	7.2
Production for Export	155	185	21	17	13	8	201	6.4
Solid Bleached Paperboard	3910	3665	332	312	357	330	3841	6.2
Production for Export	557	525	37	37	48	44	528	0.3
Recycled Paperboard	7001	6476	614	611	678	645	7274	10.9
Production for Export	24	13	1	1	1	1	23	80.1
TOTAL PAPERBOARD-Prod.-Unadj.	31232	29065	2745	2737	2897	2805	32198	9.2
- Containerboard Prod.(Dom. Use)	19040	17508	1668	1658	1773	1750	19439	9.4
- Boxboard Prod.(Dom. Use) (2)	5544	5150	454	451	502	478	5525	5.8
- All Other P'bd Prod.(D.U.) (2)	4026	3753	373	374	403	364	4303	13.0
- Total Paperbd Prod. for Export	2622	2654	250	254	219	212	2930	8.2
TOTAL PAPERBOARD PROD. - S.A.			2642	2869	2788	2811	31855	9.3
TOTAL PAPER AND PAPERBOARD								
Production - actual	62262	59488	5675	5500	5831	5647	65108	3.4
Production - S.A.			5459	5741	5623	5673	64627	8.4

(1)Includes all exports of kraft paperboard.
(2)Data for unbl. kraft folding boxboard incl. in All Other P'bd.
* Revised series based on A.P.I. data, beginning January, 1981.

P Preliminary
R Revised
S.A. Seasonally Adjusted

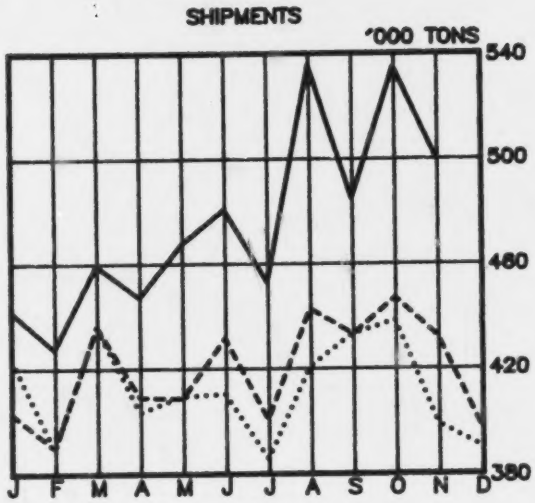
GROUNDWOOD PAPER, UNCOATED

SHIPMENTS



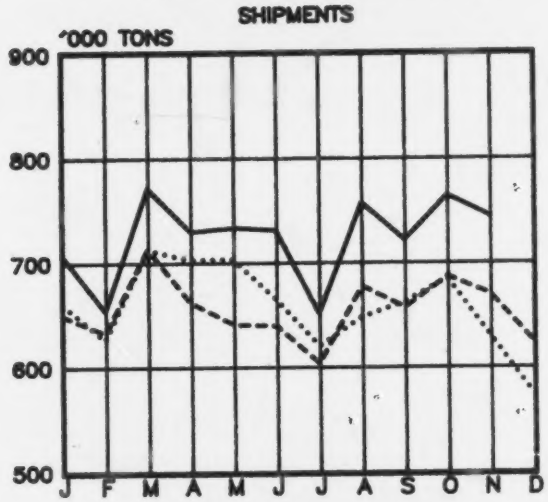
COATED PAPER

SHIPMENTS



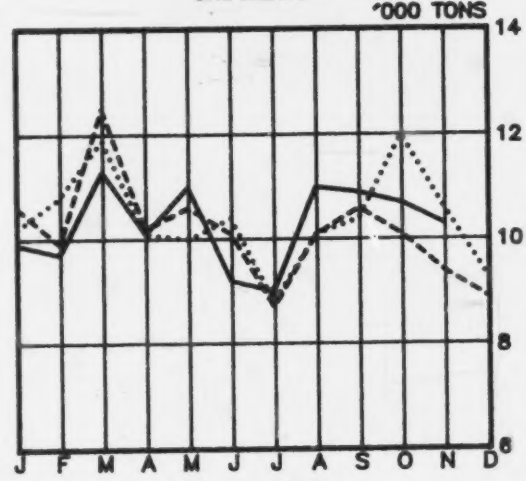
UNCOATED FREE SHEET PAPERS

SHIPMENTS



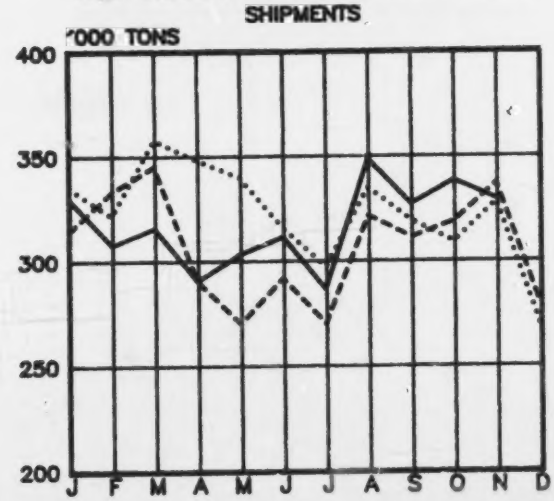
COTTON FIBER PAPER

SHIPMENTS



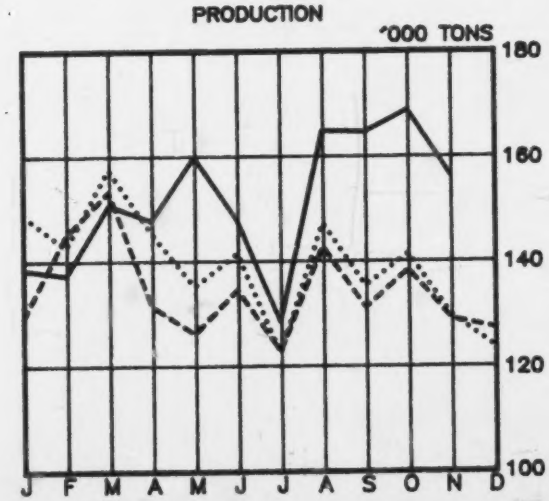
UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING PAPER

SHIPMENTS



OTHER PAPER

PRODUCTION



1981 ····· 1982 ----- 1983 ——

WOOD PULP STATISTICS
(Thousands of Tons)

	YEAR 81	YEAR 82	JULY 83	AUG. 83	SEPT 83	OCT. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
TOTAL WOOD PULP					R	P		
Total Wood Pulp - Production	52041	49334	4156	4483	4422	4677	52558	5.3
- Imports	4087	3656	327	350	332	431	4064	12.3
- Exports	3678	3395	259	289	329	315	3610	5.1
- New Supply	52470	49595	4225	4544	4425	4793	53012	5.8
Dissolving Pulp - Production	1353	1093	72	99	91	113	1248	12.0
- Imports	249	186	21	10	11	16	197	4.2
- Exports	784	631	31	60	30	77	616	-2.2
- New Supply	818	648	62	50	72	52	829	23.0
Paper Grades - Production	41445	39478	3374	3824	3586	3775	42423	8.3
Chemical Pulp - Imports	3655	3302	291	322	306	394	3688	12.9
- Exports	2870	2736	224	227	294	237	2951	8.2
- New Supply	42230	40043	3441	3718	3598	3932	43159	6.8
Groundwood and - Production	5320	5064	401	432	427	442	5030	-1.9
Thermo-Mech. - Imports	183	187	15	17	15	21	178	8.9
- Exports	24	27	3	2	4	1	43	69.5
- New Supply	5478	5204	412	447	438	462	5167	-1.9
Semi-Chemical - Production	3924	3700	309	328	318	347	3857	2.2
- Imports	0	0						
- Exports	0	0	------	Included	with	Groundwood	Pulp	------
- New Supply	3924	3700	309	328	318	347	3857	2.2
MARKET WOOD PULP								
Total Market - Production	6210	5732	483	566	510	590	6453	11.2
Wood Pulp - Imports	2924	2443	233	227	218	317	2896	20.4
- Exports	3352	3143	268	295	281	279	3436	8.3
- New Supply	5782	5032	458	499	448	628	5913	17.4
Dissolving Pulp - Production	1352	1090	72	98	91	111	1245	12.1
- Imports	241	194	22	15	13	21	208	9.1
- Exports	787	675	45	52	47	53	674	-0.4
- New Supply	806	609	49	62	58	79	780	24.7
Paper Grades - Production	4857	4643	420	466	418	478	5196	10.7
Chemical Pulp - Imports	2634	2202	209	210	201	289	2651	22.3
- Exports	2555	2468	223	243	234	227	2762	10.6
- New Supply	4836	4376	406	433	385	540	5085	16.6
Groundwood Pulp - Production	2	1	1	1	1	1	12	3233.3
and All Other - Imports	49	46	2	3	4	7	38	-21.7
- Exports	10	0	0	0	0	0	0	-50.0
- New Supply	40	46	3	4	5	8	48	3.7

SOURCES: Total Wood Pulp Production & Market Wood Pulp Production, Imports & Exports - Pulp Division, Pulp, Materials and Technology Group, API. Total Wood Pulp Imports & Exports - Department of Commerce.

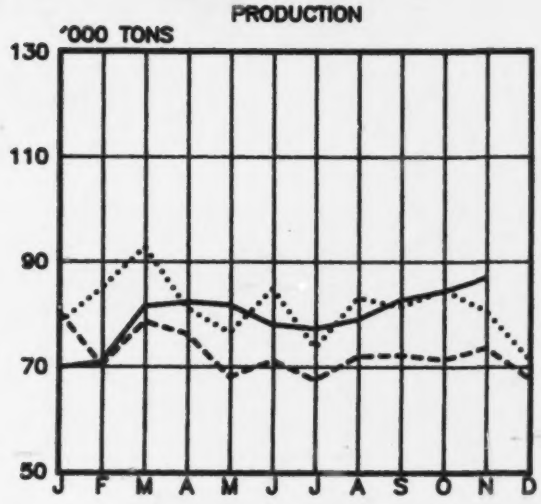
FIBROUS RAW MATERIALS
(Thousands of tons)

CONSUMPTION AT PAPER & PAPERBOARD MILLS					R	P		
Total	64573	61646	5187	5577	5541	5938	65588	5.4
Total Wood Pulp	50898	48121	4059	4372	4353	4617	51208	5.3
Waste Paper	13875	13525	1128	1205	1188	1321	14359	5.9
INVENTORIES								
Own Use Wood Pulp at Pulp Mills	188	177	209	212	193	185	185	-3.3
Market Pulp at Pulp Mills	393	437	452	468	420	449	449	-3.0
Mkt Pulp at Prr. & Bd. Mills *	454	492	499	492	534	546	546	33.5
Waste Paper at Paper &Bd. Mills	1211	1017	854	853	862	850	850	-10.9
Days of Supply at Pulp Mills of Chemical Paper Grade Mkt Pulp	33	37	33	34	31	30	30	-21.1

SOURCES: Wood Pulp Data, Pulp Division, Pulp, Materials and Technology Group, API. Waste Paper Data, Paper Recycling Committee, API.
* - Census data prior to 1982; P - Preliminary; R - Revised; (0) - Indicates zero to five-hundred short tons

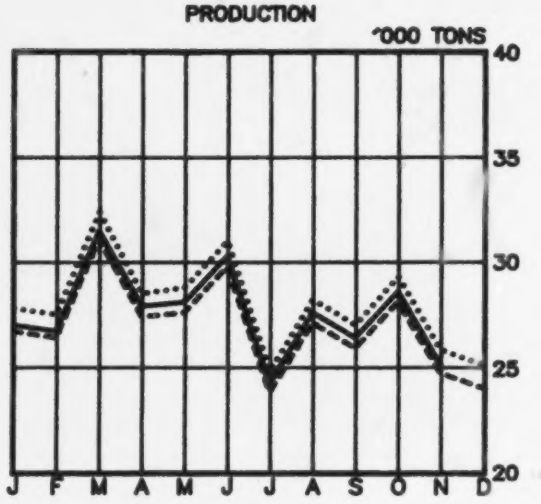
BLEACHED BRISTOLS

PRODUCTION



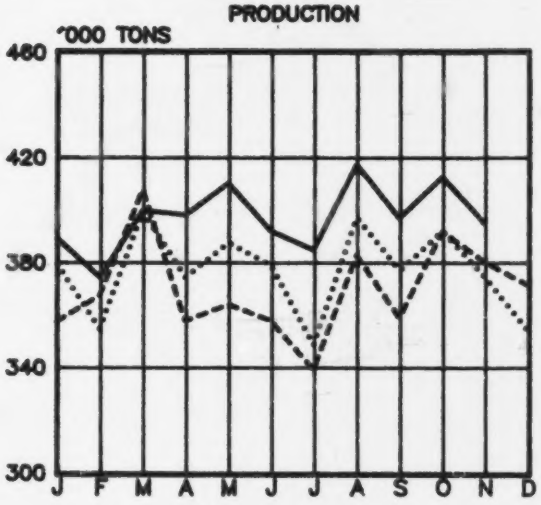
THIN PAPER

PRODUCTION



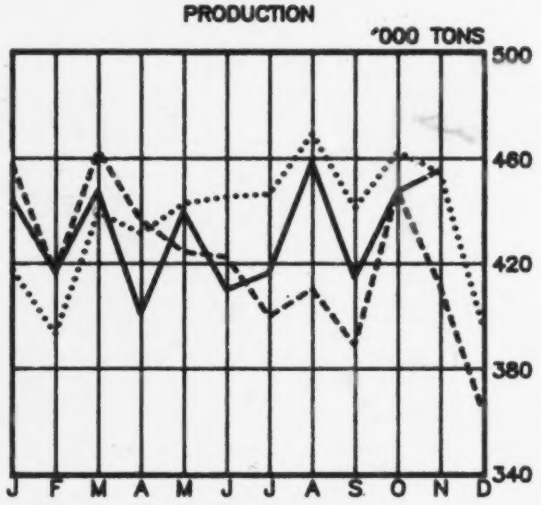
TISSUE PAPER

PRODUCTION



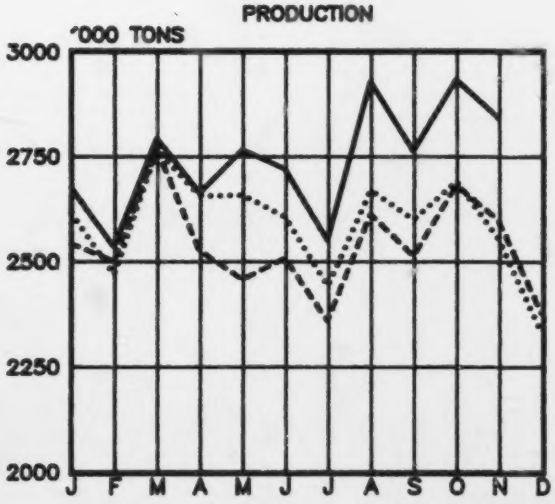
NEWSPRINT

PRODUCTION



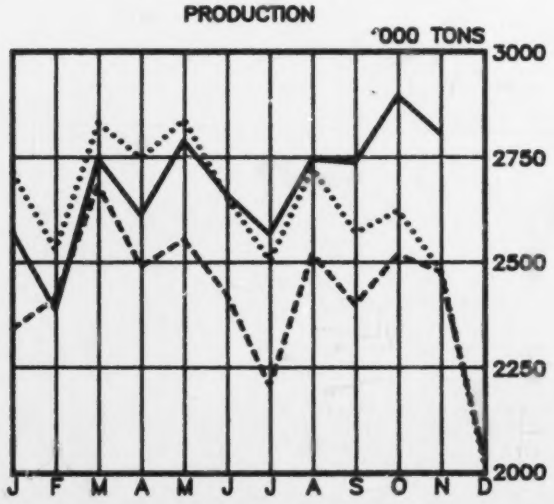
TOTAL PAPER

PRODUCTION



TOTAL PAPERBOARD

PRODUCTION



1981 ····· 1982 - - - - - 1983 ——

FIBROUS RAW MATERIALS (Continued)

(Thousands of Standard (128 cubic Foot) Cords)

		YEAR 81	YEAR 82	JULY 83	AUG. 83	SEPT 83	OCT. 83	Annual Rate Y-T-D 83	% Change From same Period Last Year
PULPWOOD									
Total U.S.	- Total Receipts	79547	78519	6821	7445	7286	7691	84734	7.3
	- Total Consumpt.	79747	79039	6801	7395	7203	7534	85721	7.8
	- Residues *	30590	31132	2644	2784	2846	3010	32936	5.8
	- Inventories	6045	5426	4952	5177	5051	5430	5430	1.9
So. Atlantic	- Total Receipts	24681	23769	2012	2219	2240	2299	25823	8.8
	- Total Consumpt	24815	23725	1983	2198	2250	2287	26008	9.2
	- Residues *	8770	8273	621	686	722	724	7944	-3.3
	- Inventories	1051	1165	1090	1143	1139	1180	1180	16.5
Northeast	- Total Receipts	7803	7283	532	642	588	648	6943	-6.0
	- Total Consumpt	7712	7221	550	629	557	642	7213	-1.6
	- Residues *	1362	1452	59	96	103	115	1170	-17.8
	- Inventories	635	652	443	469	504	537	537	-10.5
South Central	- Total Receipts	27744	26510	2420	2633	2621	2753	29587	10.8
	- Total Consumpt	27687	27153	2366	2527	2486	2561	28269	6.9
	- Residues *	8923	8616	771	800	813	852	9353	8.8
	- Inventories	1825	1348	1259	1308	1420	1628	1628	14.3
North Central	- Total Receipts	5650	5601	514	523	524	565	6294	13.6
	- Total Consumpt	5708	5706	498	522	514	553	6358	11.7
	- Residues *	1439	1517	140	147	151	181	1837	28.1
	- Inventories	1106	925	805	833	851	870	870	3.7
West	- Total Receipts	13669	15356	1343	1428	1313	1425	16087	3.4
	- Total Consumpt	13825	15234	1403	1519	1398	1491	16872	10.2
	- Residues *	10096	11284	1053	1055	1057	1138	12632	10.5
	- Inventories	1428	1338	1355	1424	1137	1215	1215	-16.4

* - Consumption of Residues in Cord Equivalents. SOURCE: American Pulpwood Association

UNITED STATES TRADE WITH CANADA

IMPORTS FROM CANADA

	YEAR 82 Tons	82 $000	SEPT 83 Tons	83 $000	OCT. 83 Tons	83 $000	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood, Roundwood (in cords of 128 cubic feet)	87043	4711	12461	565	12285	570	111150	21.9
Pulpwood Chips	1678793	51374	208761	5082	156944	3841	2007329	17.1
Wood Pulp, Total	3364184	1386688	326653	118465	354518	127825	3697430	10.6
Waste Fibrous Materials, Total	129749	23299	12124	1872	13425	2296	156924	20.9
Paper, Board & Products, Total	7707948	3272224	673784	280011	756222	317635	8203664	6.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Bd.	7685499	3201221	668735	270934	750987	308175	8151321	6.2
Paper Paperboard & Products	7327112	3192595	630676	270420	721140	309695	7731002	5.8
Paper & Paperboard, Only	7284663	3121592	625626	261342	715905	300235	7698660	5.8
Paper, Total	7171243	3093475	608883	257040	701719	296519	7543470	5.2
Newsprint	6484605	2730256	537352	219567	630117	257862	6767402	4.0
Printing, Writing & Rel.Par.	612760	310154	60343	31010	63859	33345	682894	15.4
Pack. & Ind. Conv. Paper	66300	46060	9772	5168	8568	4315	78800	18.4
Special Industrial Paper	1899	3123	375	609	249	403	2856	51.7
Tissue Paper	5680	3882	1041	687	926	594	10517	81.6
Paperboard, Total	113420	28117	16743	4303	14187	3716	155190	45.5
Convtd Paper&Paperbd Products	42449	71003	5049	9077	5235	9460	52342	23.9
Wet Machine Board	1302	737	196	127	300	190	3125	169.8
Construction Paper & Board	379533	70892	42913	9464	34782	7750	449537	14.3

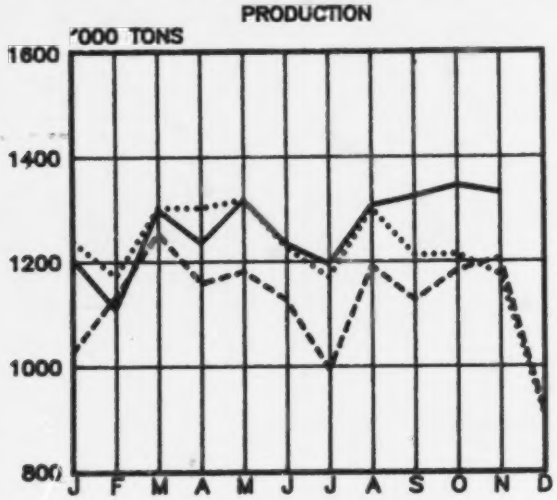
EXPORTS TO CANADA

Pulpwood, Roundwood (in cords of 128 cubic feet)	107700	7263	9837	700	11660	744	69649	-38.7
Pulpwood Chips	27650	1500	2355	109	6128	372	41389	42.7
Wood Pulp, Total	116067	54691	10321	4657	15445	6219	138150	18.9
Cotton Pulp & Other Pulp	6790	4152	676	426	1380	740	9778	60.8
Waste Paper	271395	32555	30248	3567	30743	3727	343315	27.6
Paper, Board & Products, Total	583206	442437	56908	41401	61753	44241	662889	17.3
Paper, Paperboard, Wet Machine Bd. & Constr. Paper & Board	383566	275107	37869	27333	42430	29289	456733	21.1
Paper, Paperboard & Products	561355	433689	54420	40368	58783	43384	631228	18.4
Paper & Paperboard, Only	361714	266359	35381	26300	40460	28432	425072	18.8
Paper, Total	188370	185357	19226	18880	19667	18550	231283	24.1
Newsprint	3037	2671	587	527	314	258	4273	47.0
Printing, Writing & Rel.Par.	113443	95899	10835	8945	11755	9810	125445	12.5
Pack. & Ind. Conv. Paper	20289	13815	2786	1638	2943	1904	32518	63.3
Special Industrial Paper	47736	70111	4486	7311	4387	7388	65089	35.2
Tissue	3864	2962	532	259	268	190	3947	1.8
Paperboard, Total	173345	81001	16156	7620	20793	8882	193780	15.3
Convtd Paper&Paperbd Products	199640	167330	19039	14068	19323	14852	206156	9.7
Wet Machine Board	4365	2537	306	198	296	227	5324	13.4
Construction Par & Bd. E	17487	6212	2161	833	1674	831	26337	48.4

SOURCE: Bureau of Census, Department of Commerce. E - Estimate of tonnage based on square foot data

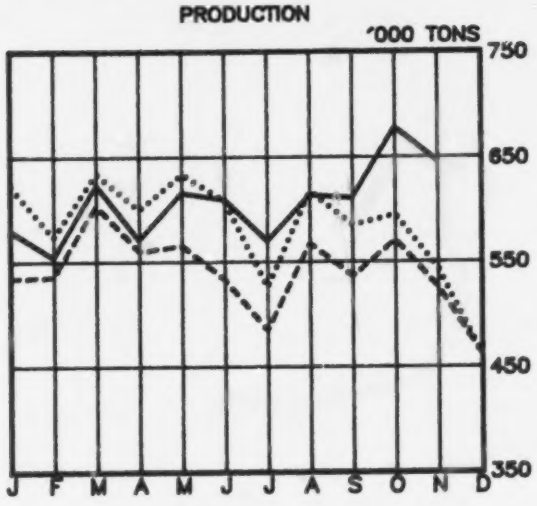
UNBLEACHED KRAFT LINERBOARD

PRODUCTION



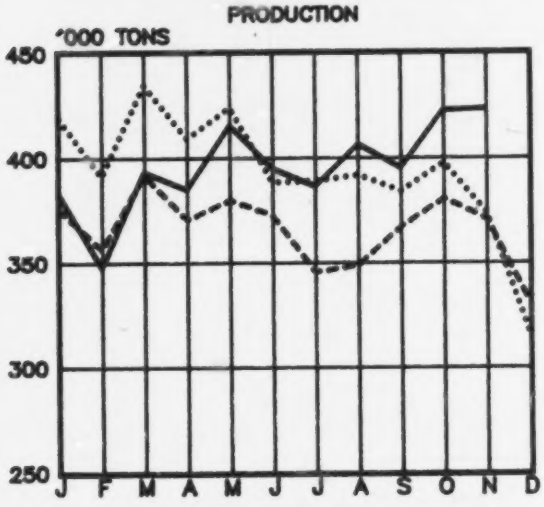
RECYCLED PAPERBOARD

PRODUCTION



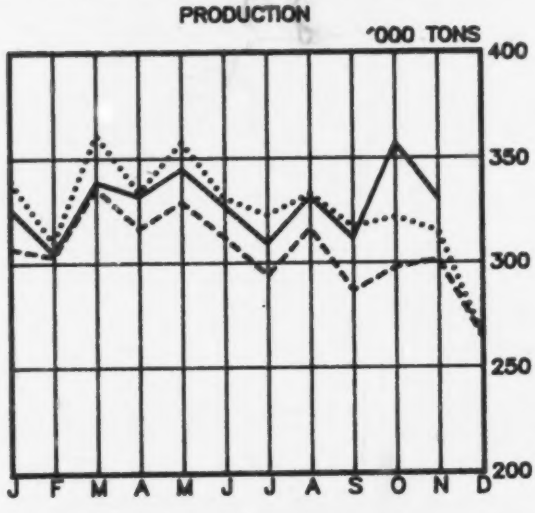
SEMICHEMICAL PAPERBOARD

PRODUCTION



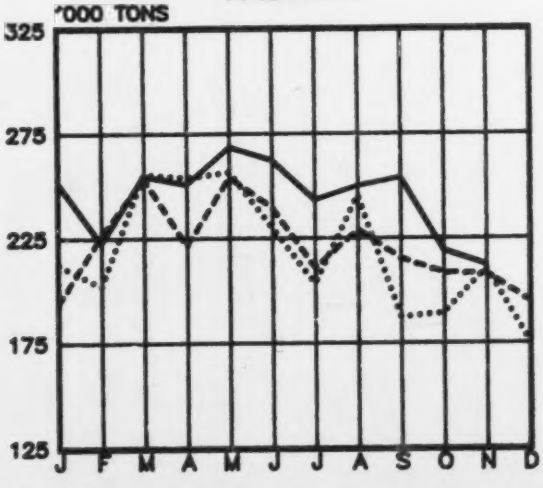
SOLID BLEACHED PAPERBOARD

PRODUCTION



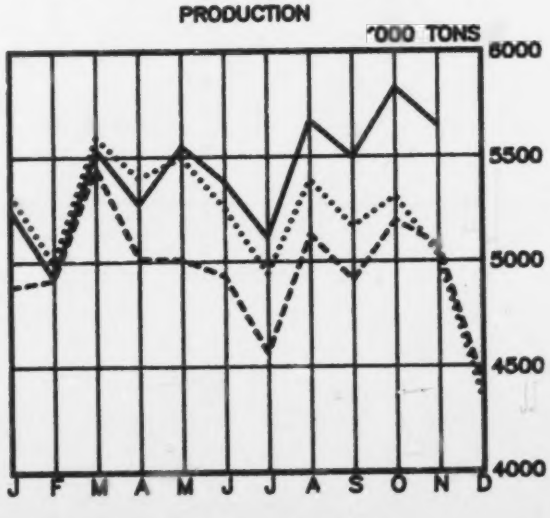
PAPERBOARD FOR EXPORT

PRODUCTION



TOTAL PAPER AND PAPERBOARD

PRODUCTION



1981 ..... 1982 ----- 1983 ——

PULP PAPER AND PAPERBOARD IMPORTS AND EXPORTS DATA

IMPORTS

	YEAR Tons	82 $000	SEPT Tons	83 $000	OCT. Tons	83 $000	(1) Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulpwood Roundwood (cords)	87043	4711	12461	585	12285	570	111150	21.9
Pulpwood Chips	1682414	51538	208773	5084	156960	3844	2012423	17.1
Total All Imports	11824303	5209303	1086373	459807	1280021	541816	13059374	10.7
Wood Pulp Total	3655786	1493241	332082	120222	430584	151208	4063836	12.3
Waste Paper	74332	9450	8115	807	8821	1028	100907	35.0
Other Fibrous Materials	70176	24212	4717	1654	5666	1990	66491	-5.9
Paper Board & Products Total	8024009	3682401	741459	337123	834940	387380	8828041	9.8
Paper Paperboard Wet Machine Bd. & Construction Paper & Board	7917418	3344205	728292	300980	818683	341111	8681529	9.5
Paper Ppbd & Prds ex Cnst&WMB	7802651	3594201	694726	326601	793874	378055	8325397	9.5
Paper & Paperboard Only	7496060	3256005	681560	280468	777818	331576	8178885	9.1
Paper Total	7381252	3226307	664201	285749	763307	327709	8014698	8.5
Newsprint	6530676	2748652	543241	222273	634175	259465	6832450	4.2
Printing & Writing	764085	408351	107874	55031	118384	59734	1065480	43.8
Uncoated Groundwood	514882	248196	72486	32951	75475	33562	699162	41.2
Uncoated Book	142626	80105	12236	7496	12502	7438	141821	-0.4
Coated Print.& Impress. Par	69010	46763	13975	8618	19707	12167	142118	111.8
Bristols	391	416	47	52	62A	75	388	5.4
Writing and Similar Paper	25893	19225	7684	4552	8246	4531	66273	164.8
Thin (except Cigarette)	11293	13848	1436	1362	2394	1962	15718	45.6
Total Pkg & Other Paper	78853	63863	12002	7714	8618	7750	105324	31.7
Unbleached Kraft Paper	23078	10748	5731	2187	4244	1820	41778	86.9
Other Pkg. & Indust. Paper	56575	53114	6271	5517	5373	5830	63548	10.3
Tissue	6828	5241	1085	732	1129	760	11444	60.6
Paperboard, Total	114808	29698	17359	4718	14311	3867	164187	52.1
Test or Containerboard	35983	8459	3927	1123	3862	1156	48034	50.0
Semi-Chemical Corrugating	47295	9675	7933	1640	6514	1385	65881	45.0
Other Paperboard	31531	11560	5499	1855	3936	1325	50272	65.0
Convtd Paper&Paperbd Products	106591	338196	13167	36133	16256	48478	146512	37.2
Paper Products, Total	92059	307245	11113	31190	13326	39677	119186	29.0
Paperboard Products, Total	14532	30951	2054	4943	2931	8802	27325	89.8
Wet machine Board	1842	1238	231	159	338	218	3542	104.7
Construction Paper & Board	419515	86961	48501	10364	40728	9317	489103	15.1
Notes								
Other: No Weight Avail. ($000)		135346		15187		15241	147006	8.7
Total Imports Incl. Other($000)		5344649		474994		557057	5562870	+4.1

EXPORTS

							(1)	
Pulpwood, Roundwood (cords)	111692	7475	9837	700	11660	744	70288	-40.7
Pulpwood Chips	2860133	231140	167639	11138	146914	9700	2585897	-12.4
Total All Exports	9872299	4315138	948555	360249	927343	359885	10764936	7.4
Wood Pulp,Total	3394648	1414558	328512	118024	314511	122765	3608911	5.1
Cotton Pulp and Other Pulp	104560	72327	11650	6864	9708	8771	101602	-4.5
Waste and Old Paper	2127050	238834	221568	28908	255928	32586	2488285	14.6
Paper, Board & Products,Total	4246041	2589319	386825	206453	347196	197763	4565138	5.9
Paper,Paperboard,Wet Machine Bd. & Construction Paper & Board	3670413	1754352	335990	140517	295078	132216	3987196	6.5
Paper, Ppbd & Prod ex Cnst&WMB	4187119	2558943	382069	204221	342864	195811	4499421	5.8
Paper & Paperboard, Only	3611491	1723977	331235	138285	290745	130263	3921479	6.4
Paper, Total	840445	679069	59370	47889	68991	54244	786599	-11.0
Newsprint	307657	142964	24322	10522	28151	11893	288916	-8.0
Printing & Writing	246617	239135	16539	16441	18448	18979	201905	-21.3
Uncoated Groundwood	55916	48430	2527	2404	3548	3035	37389	-38.4
Clay Coated Paper	81373	65485	7419	5806	7548	5977	77836	-6.5
Uncoated Free Sheet	70599	75451	4663	5843	5015	7018	59838	-18.0
Other Printing & Writing	38729	49769	1931	2588	2337	2948	26841	-32.1
Total Pkg. & Other Paper	262861	271556	17376	19888	21129	22175	269337	-3.0
Unbleached Kraft	89068	38003	7446	3090	12196	5750	119372	29.0
Other Pkg. & Indust. Paper	173793	233553	9930	16799	8933	16425	149964	-19.0
Tissue	23310	25415	1133	1038	1263	1198	16441	-32.5
Paperboard, Total	2771046	1044908	271865	90395	221755	76020	3134880	11.9
Solid Wood Pulp	2612588	970814	261126	85232	210921	70228	2978221	12.4
Total Linerboard	1886193	542304	210848	55059	160407	41254	2253039	17.2
Bleached Kraft Linerboard	67595	26626	19861	7454	12875	5129	145808	136.4
Unbleached Kraft Linerbd	1818599	515677	190987	47605	147532	36125	2107230	13.2
Other Unbleached Kraft	139219	60780	10462	4522	5246	3241	102267	-26.7
Other Bleached Kraft	525733	349615	37652	25012	42151	24870	548729	3.9
Semi-Chemical Corrugating	61422	18116	2164	639	3116	864	74186	23.7
Recycled Paperboard	158478	74094	10739	5163	10834	5791	156659	4.3
Convtd Paper&Paperbd Products	575628	834866	50835	65938	52118	65548	577842	1.5
Paper Products, Total	315805	591163	27790	46969	26990	45556	310614	-3.7
Paperboard Products, Total	259823	243804	23045	18967	25128	19992	267328	8.3
Wet Machine Board	11089	5939	504	334	704	385	11512	6.0
Construction Paper & Board E	47833	24437	4251	1898	3629	1568	54205	13.3
Notes								
Other: No Weight Avail. ($000)		8890		753		784	7837	-16.6
Total Exports Incl. Other($000)		4324128		361002		360679	4190389	-3.1

SOURCE: Bureau of Census, U.S. Department of Commerce. E - Incl. estim. of tonnage based on square foot data.
(1) Annual Rate Year-To-Date is in tons unless otherwise specified in item description. A-Estimated

PRODUCER PRICE INDEXES
1967 = 100

	81	82	AUG.	SEPT	OCT.	NOV.	Annual Rate Y-T-D 83	% Change From same Period Last Year
Pulp, Paper and Products except Building Grades	270.8	273.2	270.1	271.7	273.0	276.3	270.4	-1.2
Pulp Paper & Products, ex. Building Grades & ex Waste Paper #	272.4	275.9	271.5	273.0	274.0	277.4	272.4	-1.4
Total Wood Pulp	397.1	379.1	348.2	348.4	348.6	352.6	346.3	-9.3
Total Paper	279.8	286.3	281.0	285.3	286.6	287.9	281.2	-2.0
Total Paper, exc. Newsprint	271.1	278.3	273.5	280.3	282.6	284.3	275.8	-1.0
Newsprint	307.5	315.8	305.8	309.6	309.6	309.6	302.2	-4.7
Total Paperboard	258.1	254.9	250.4	252.8	255.5	257.3	249.7	-2.4
Total Paper and Paperboard #	273.1	276.5	271.4	275.1	276.8	278.5	271.3	-2.2
Converted Products	258.8	264.4	265.0	265.3	266.5	267.8	265.2	0.3
Waste Paper	175.7	121.1	186.2	184.5	216.4	210.2	Not Available	
All Commodities	293.4	289.3	304.9	305.3	306.3	305.6	302.8	1.2
Industrial Commodities	304.1	312.3	317.5	317.2	318.7	318.3	315.5	1.1

SOURCE: Producer Price Indexes -Bureau of Labor Statistics, U.S. Department of Labor # Computed by API

Continued from Page 2

of containerboard at boxplants and mills declined slightly during 1983 from the level reached at the beginning of the year. In terms of weeks of supply, inventories declined from 7.6 weeks as of December 1, 1982 to 6.4 weeks of a greatly increased shipments level as of December 1, 1983.

Several of the boxboard grades have shown particularly strong growth in the second half of 1983. Production of folding boxboard in the January-November 1983 period was 6.5% over its 1982 level, with the bleached grades up 8% and recycled up 5%. As of mid-1983, the gain in total folding boxboard production was only 2.5%. Set-up boxboard, normally a slow growth product, is up about 7% this year. However, production of paperboard for export dropped sharply between September and October, moving from 254,000 to 219,000 tons. Production in November held close to the October level, suggesting a drop in export demand from the higher levels held during the previous months of the year. The data from the Bureau of Census on exports of unbleached kraft linerboard in October, shown on Table 9, followed a similar pattern.

Fibrous Raw Materials

Production of chemical paper grade market pulp in 1983 will probably reach 5.2 million tons, some 11% over the year-ago level. Shipments increased about 12%, reflecting a slight decline in inventories. The U.S. market took 14% more pulp in 1983 than in 1982, a pattern

 Continued from Page 10

consistent with the strong demand for printing/writing paper grades. Export shipments were up about 10%, with shipments to the important European market (which accounted for about 58% of the total) up 5% and shipments to Japan (19% of the total) up 32%.

Imports and Exports

Data from the Bureau of Census show total paper and paperboard imports (including construction grades and all products) in the first ten months of 1983 up 9.8% from the year-ago level, bringing the rate to 8.8 million tons per year, about equal to the 1980 high. This was slightly below the 9.1 million tons per year average rate of the 1978-1979 period.

Total exports (including construction grades and all products), at an annual rate of 4.6 million tons, were 6% over the comparable year-ago total in this period. This was about equal to the level reached in 1981, but below the 5.2 million tons exported in the peak year 1980.

The gains in exports were concentrated almost completely in the paperboard sector, where Census data show a total gain of 12%. Total paper exports in the first 10 months of 1983, by way of contrast, declined 11%, falling below 800,000 tons per year, compared to the 840,000 tons exported in 1982.

Exports of waste paper in the first 10 months of 1983 were at an annual rate of nearly 2.5 million tons, up 14.6% from the year-ago level. While this was still a shade below the 1980 rate, it was well above that of any earlier year.

New Supply

The strong increases in paper and paperboard production and imports, accompanied by the modest increases in exports, brought total new supply of paper plus paperboard to an estimated 68.6 million tons, 9% above the 1982 level, 4.6% above the 1981 level and 3.3% above the previous high reached in 1979. The 9% gain in new supply compares to the 3.3% gain in the real GNP as estimated from preliminary data reported by the Department of Commerce. Thus, the ratio of new supply to real GNP in 1983 is estimated at 44,660 tons per billion dollars, compared to 42,350 tons in 1982 and 43,360 in 1981. The 1983 level is in fact about equal to the average level of the 1977-1979 period. The sharp gain from 1982 to 1983 points to

Continued on Page 12

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the possibility of some diversion of the total new supply to inventory accumulation. However, industrial production, a good measure of demand for packaging goods, gained an estimated 6.6% over its 1982 level. Also, as noted earlier, there are strong indications of demand growth in individual markets that were faster than that of real GNP.

Capital Expenditures

Recent data by the Department of Commerce show that paper and allied product companies spent $6.2 billion on new plant and equipment in 1983. This was 3.9% above the total spent in 1982, but 8% below 1981's $6.7 billion. The API estimates that the expenditures by these companies at establishments outside the paper industry were matched by expenditures of non-paper companies (with capacity in the industry) on paper industry establishments, so that the total spent at paper and allied products establishments in 1983 was also in the neighborhood of $6 billion.

The Department of Commerce also reported that capital expenditures by paper companies in the first half of 1984 would be at the rate of $6.8 billion per year, which would just about match the rate of expenditures in the peak year 1980.

Analysis of data on starts and carryovers published by the Department of Commerce shows that the paper companies in the first three quarters of 1983 started new projects at the rate of $6.3 billion per year. As of the end of the third quarter, there was a carryover of expenditures yet to be incurred in projects under way of $6.5 billion.

Data from the Conference Board also indicate capital expenditures will remain strong during 1984. The Conference Board reported that newly approved capital appropriations for the paper companies included in the thousand largest companies in the U.S. amounted to $655 million in the third quarter of 1983, which was close to the $679 million per quarter average of appropriations for the first half of that year. The Conference Board data show that the companies started out 1983 with an opening backlog of unspent appropriations of $5.1 billion. In the first three quarters of the year, these companies appropriated a total of $2.0 billion, cancelled $240 million in existing projects, and spent $2.5 billion on new plant and equipment. Thus, although their backlog of unspent appropriations was drawn down to $4.4 billion as of the end of the third quarter, it was still equivalent to 1.3 years of expenditures at the average expenditure rate of the first three quarters of 1983.

INDUSTRY FACT SHEET

AMERICAN PAPER INSTITUTE, INC.
260 Madison Avenue
New York, New York 10016

DEC. 20, 1983

PRODUCTION (000 TONS)

	Nov. 83	Oct. 83	Nov. 82	Jan - Nov. 83	Jan - Nov. 82	% Change 83/82
PAPER GRADES	P	R				
Newsprint	456	448	411	4752	4678	1.6
Printing & Writing	1505	1566	1335	15888	14409	10.3
Uncoated Groundwood (s)	138	142	127	1389	1345	3.3
Coated Paper (s)	500	535	432	5234	4634	12.9
Uncoated Free Sheet Paper (s)	745	765	669	7974	7225	10.4
Thin Paper (s)	25	29	25	303	299	1.6
Cotton Fiber Paper (s)	10	11	9	113	109	3.8
Bleached Bristols (s)	87	84	73	875	797	9.8
Tissue Paper	395	413	380	4371	4066	7.5
Total Pkg & Other Paper	486	508	467	5157	4892	5.4
Unbleached Kraft Packaging & Indl. Converting (s)	330	339	338	3491	3408	2.5
Other Paper *	156	169	129	1666	1485	12.2
TOTAL PAPER	2842	2934	2593	30169	28046	7.6
PAPERBOARD GRADES						
Unbleached Kraft Paperboard	1407	1439	1280	14884	13552	9.8
Unbleached Kraft Linerboard	1331	1345	1206	13892	12576	10.5
Other Unbl. Kraft Paperboard	76	94	74	992	977	1.6
Semichemical Paperboard	423	423	371	4351	4058	7.2
Bleached Paperboard	330	357	302	3612	3400	6.2
Recycled Paperboard	645	678	525	6668	6014	10.9
TOTAL PAPERBOARD	2805	2897	2477	29515	27025	9.2
TOTAL PAPER AND PAPERBOARD	5647	5831	5071	59684	55071	8.4

WOOD PULP (ALL GRADES)	Oct. 83	Sept 83	Oct. 82	Jan - Oct. 83	Jan - Oct. 82	% Change 83/82
Dissolving & Special Alpha	113	91	96	1040	928	12.0
Bleached Sulfite	118	113	105	1091	1058	3.1
Unbleached Sulfite	25	24	31	258	298	-10.7
Bleached & Semi-Bl. Sulfate	1885	1695	1667	17612	16571	6.3
Unbleached Sulfate	1747	1754	1559	16393	15339	6.9
Semichemical	347	318	316	3215	3145	2.2
Groundwood and Thermomechanical	442	427	450	4192	4271	-1.9
TOTAL PULP DIVISION DATA	4677	4422	4223	43798	41602	5.3

(s) - Shipments R - Revised E - Estimate
P - Preliminary * - Revised series based on A.P.I. data.

December 30, 1983

	Full Year		INDUSTRY DATA			Ann. Rate Year - To - Date	% From Same Pd. Last Yr.
			R	R	P		
PAPER AND PAPERBOARD -- Tons (000)	1981	1982	September	October	November		
Total Production (API)..... excludins ...	62262	59468	5500	5831	5647	65109	8.4
Total Seasonally Adjusted....construction...			5741	5623	5673	64627	8.4
Imports (includins Products). and wet ..E	7941	7603	695	794	N.A.	8425	10.1
Exports (includins Products). machine ..E	4561	4187	382	343	N.A.	4439	5.7
Apparent Consumption..... grades ...	65642a	62904 b	6034	6074	6138	68613c	8.7
Paper Production % Tonnage Capacity.....	92.1s	87.8Rs	93.1	95.7	95.4	92.0mh	-
Paperboard Production % Tonnage Capacity.....	90.6s	82.1Rs	91.9	94.6	94.1	89.9s	-
			August	September	October		
IMPORTS.....Includins Construction and	8339	8024	767	741	835	8828	9.8
EXPORTS..... WMB Grades (excl. HPB)	4641	4246	380	387	347	4565	5.9
MARKET WOOD PULP PRODUCTION - Tons (000).....	6210	5732	566	510	590	6453	11.2
TOTAL WOOD PULP PRODUCTION - Tons (000)..(F)....	52041	49334	4483	4422	4677	52558	5.3
WOOD PULP IMPORTS - TONS (000).....	4087	3656	350	332	431	4064	12.3
WOOD PULP EXPORTS - TONS (000).....	3678	3395	289	329	315	3610	5.1
RAW MATERIALS CONSUMPTION - Tons (000)							
..PAPER AND BOARD MILLS excludins			August	September	October		
Wood Pulp.....consumption For.....	50698	48121	4372	4353	4617	51208	5.3
Waste Paper.....construction &	13875	13525	1205	1188	1321	14359	5.9
TOTAL..... WMB grades	64573	61646	5577	5541	5938	65568	5.4
PULPWOOD CONSUMPTION Cords(000)Amer.Pulpwd. Assn	79747	79039	7395	7203	7534	85721	7.8
EMPLOYMENT (000)			September	October	November		
Paper and Allied Products.....Total.....	688.5	662.0	665.5	667.2	670.0	658.0	-0.7
Pulp, Paper and Board Mills.....Total.....E	267.3	257.8	254.7	255.2	256.3	253.5	-1.8
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS ($)							
Paper and Allied Products.....	8.60	9.32	10.11	10.10	10.18	9.90	6.5
Pulp, Paper Mills.....E	10.05	10.88	12.01	12.03	12.10	11.67	7.6
Paperboard Mills.....E	10.23	11.13	12.34	12.34	12.37	12.05	8.9
CAPITAL EXPENDITURES, PAPER & ALLIED PRODUCTS			1983 Q1	1983 Q2	1983 Q3		
(Rept. by US Dept. of Com., Ann. Rates, Bill.$)*	6.72	5.97	6.02	6.30	6.18	6.20y	3.9
INDEX OF OUTPUT PER MAN-HOUR (1977=100).....			September	October	November		
IN PULP, PAPER ...Production Workers.....	108.2	109.9	124.3	124.1	122.7	121.0	9.9
AND BOARD MILLS....All Employees.....	107.5	108.3	123.5	123.0	122.0	119.4	10.1
PAPER AND ALLIED PRODUCTS (Million $)			August	September	October		
Industry Shipments (Dept. of Commerce)*.....	80251	78992	7307	7324	7401	84325	6.7
Pulp, Paper and Paperboard*.....	35116	33523	3086	3169	3118	35794	6.3
Inventories (End of Period) - Total Industry*.	8641	8607	8391	8490	8662	8662	-0.3
Pulp, Paper and Paperboard*.....	3224	3365	3211	3217	3281	3281	-3.4
			1983 Q1	1983 Q2	1983 Q3		
Sales (Corporations Only, FTC).....	62699	60293	15524	16500	16787	65085	7.6
Earnings (Corporations Only, FTC).....	3110	1460	441	543	678	2216	31.7
Depreciation (Corporations Only, FTC).....	2267	2379	641	661	688	2653	11.5
Net Worth (Corporations Only, FTC).....	26558	26705	26995	26856	27381	27381	2.2
PRICE INDEXES (Bureau of Labor Stats)1967=100			September	October	November		
Pulp, Paper & Products, ex. Buildins Grades...	270.8	273.2	271.7	273.0	276.3	270.4	-1.2
Wood Pulp.....	397.1	379.1	348.4	348.6	352.6	346.3	-9.3
Waste Paper.....	175.7	121.1	194.5	216.4	210.2	Not Available	
Paper.....	279.8	286.3	285.3	286.6	287.9	281.2	-2.0
Paperboard.....	258.1	254.9	252.8	255.5	257.9	249.7	-2.4
PAPER DEMAND (INDEXED: 1967=100)			September	October	November		
Total Paper Production *.....	148.3	145.4	164.6	162.4	164.0	156.5	7.6
Paper New Supply *.....	137.7	135.1	152.4	154.9	155.8	146.5	8.3
Total End - Use Index *.....	150.3	149.5	164.6	165.6	167.0	157.2	5.1
Production of Nondurable Goods *...(19%)..	164.7	156.1	174.8	175.9	176.7	167.7	7.4
Disposable Income (Constant $) *...(23%)..	154.3	157.8	164.6	165.9	166.7	162.8	3.3
Total Printins and Publishins *...(58%)..	144.0	144.0	161.2	162.1	164.0	151.5	5.1
Trend Factor			Not Available				
PAPERBOARD DEMAND (INDEXED: 1967=100)							
Total Paperboard Production *.....	137.1	127.6	150.9	146.6	147.8	139.6	9.3
Production For Domestic Use	132.9	122.7	145.7	143.2	144.9	134.3	9.3
Total End - Use Index *.....	149.3	139.5	154.9	155.9	156.7	148.4	6.2
Production of Consumer Goods *...(60.49%)	147.8	142.7	157.4	158.0	158.3	151.5	6.1
Production of Equipment *...(6.62%)	151.8	139.8	144.9	146.9	148.7	139.8	-0.3
Production of Materials *...(32.89%)	151.5	133.7	152.3	153.8	155.3	144.4	7.6
Trend Factor			Not Available				
NEWSPRINT MARKETS			August	September	October		
Consumption by Publishers - Tons (000).....	11205	11150	933	976	1077	11424	3.9
Newspaper Pub. and Printins Empl. Total(000)..	419.8	417.5	422.7	424.5	427.2	420.1	0.6
PRINTING AND FINE PAPER MARKETS							
MAGAZINE ADVERTISING PAGES (LNA, Inc.).....	123182	120751	8483	12509	14023	127825	8.3
WHOLESALERS SALES AND INVENTORIES (Million $)(J)							
Total Paper & Pap. Prdcts..ex Wallpaper..Sales	23603	22776	2184	2266	2259	24414	7.3
Inventories (End of Period)	1971	1885	2201	2211	2209	2209	13.6
FIBRE BOX DATA (Fibre Box Association)			September	October	November		
Fibre Box Shipments (Million square Feet).....	246152	235185	22319	23452	21043	253990	7.0
Container'bd Inventory at Mill & Plant(000Tons)	2729	2584	2339	2302	2390	2390	-5.3
RETAIL TRADE (Million $)							
Total Retail Sales *.....	1047118	1074467	99202	100573	102457	1166555	8.9
Nondurable Goods Stores Sales *.....	731201	753568	67077	67481	68056	791869	5.2
GENERAL ECONOMIC DATA							
TOTAL INDUSTRIAL PRODUCTION (INDEX 1967 = 100)*.	150.9	138.6	153.9	155.1	156.3	146.9	5.7
PRODUCER PRICES(ALL COMMODITIES)(INDX 1967=100).	293.4	299.3	305.3	306.3	305.6	302.8	1.2
CONSUMER PRICES (ALL ITEMS) (INDEX 1967 = 100)..	272.4	289.1	301.8	302.6	303.1	298.0	3.2
			August	September	October		
TOTAL CONSUMER CREDIT OUTSTANDING - (Billion $).	331.7	344.8	363.7	367.6	371.6	371.6	10.4
GROSS NATIONAL PRODUCT - ANNUAL RATE (Billions$).			1983 Q2	1983 Q3	1983 Q4		
G.N.P. or Expenditure - Current $.....	2954.1	3073.0	3272.0	3362.2	3405.0E	3302.7E	7.5
G.N.P. or Expenditure - 1972 $.....	1513.8	1485.4	1525.1	1553.4	1570.6E	1534.8E	3.3

lb/capita

Pap&Parbd	Othr	Totl	Popul(mil)
.a - 572 + 21	=	593	229.8
.b - 543 + 15	=	558	232.0
.c - 587 + 18	=	605	233.6

.E - Last month estimated by API
.e - estimated by API

s - Adjusted for holiday shutdowns
h - Adjusted to conform with API Division data
J - Census unpublished data; standard dev. = 6-8%
N.A. - Not Available
P - Preliminary
Q - Quarter

R - Revised
RS - Revised Series
y - Full year estim. by U.S. Dept. of Com.
* - Seasonally Adjusted